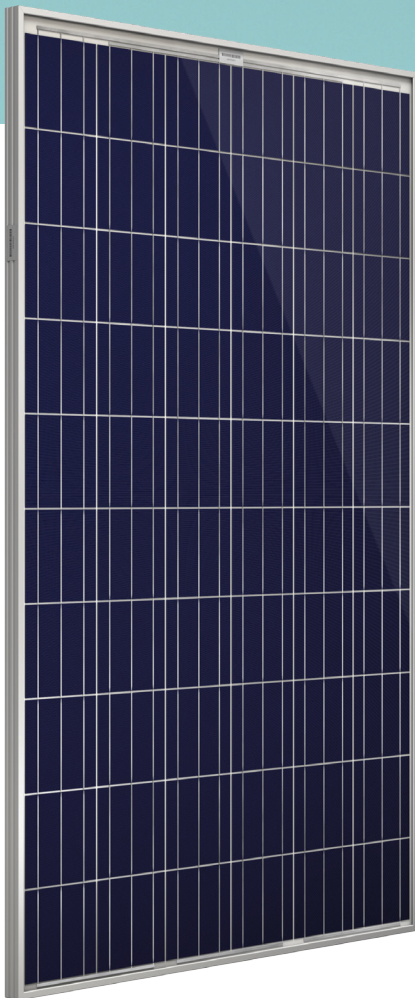




aleo

Your gateway towards
reliable projects



P18

250 - 260 W

QUALITY SIGNED AND SEALED



60

cells

35 mm

frame

15 years

of experience in polycrystalline
technology



PID FREE

PID tested with excellent results
under the harshest conditions



CRAFTED WITH PASSION



**25 YEARS LINEAR PERFORMANCE
WARRANTY**



CONSTANTLY HIGH CELL QUALITY
through strict quality examinations
by highresolution electroluminescence
and infraredmeasurements



12 YEARS PRODUCT WARRANTY



Made in Germany

aleo solar module P18

ELECTRICAL DATA (STC)		P18_250	P18_255	P18_260
Rated power	P_{MPP} [W]	250	255	260
Rated voltage	U_{MPP} [V]	30.3	30.4	30.5
Rated current	I_{MPP} [A]	8.24	8.38	8.51
Open-circuit voltage	U_{OC} [V]	37.5	37.6	37.7
Short-circuit current	I_{SC} [A]	8.76	8.88	9.01
Efficiency	η [%]	15.2	15.5	15.8

Electrical values measured under standard test conditions (STC): 1000 W/m²; 25°C; AM 1.5

ELECTRICAL DATA (NOCT)		P18_250	P18_255	P18_260
Power	P_{MPP} [W]	183	187	190
Voltage	U_{MPP} [V]	27.4	27.5	27.6
Current	I_{MPP} [A]	6.67	6.78	6.89
Open-circuit voltage	U_{OC} [V]	34.5	34.6	34.6
Short-circuit current	I_{SC} [A]	7.12	7.22	7.33
Efficiency	η [%]	13.9	14.2	14.5

Electrical values measured under nominal operating conditions of cells: 800 W/m²; 20°C; AM 1.5; wind 1 m/s

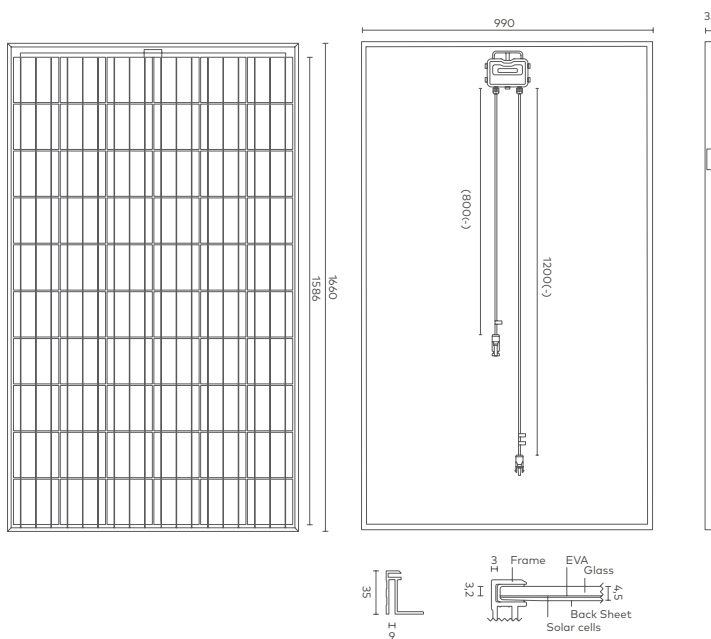
NOCT: 47°C (nominal operating cell temperature)

TEMPERATURE COEFFICIENTS			
Temperature coefficient I_{SC}	$\alpha (I_{SC})$	[%/K]	+0.05
Temperature coefficient U_{OC}	$\beta (U_{OC})$	[%/K]	-0.31
Temperature coefficient P_{MPP}	$\gamma (P_{MPP})$	[%/K]	-0.42

BASIC DATA JUNCTION BOX	
Length x width x height	[mm] 148 x 123 x 27
IP class	IP67
Cable length	[mm] 1200 (+), 800 (-)
Connectors	PV-JM601
Bypass diodes	3

Measurement tolerance of P_{MPP} under STC -3/+3% | Accuracy of other electrical values -10/+10%
Efficiency relating to gross module area

DIMENSIONS [MM]



BASIC MODULE DATA	
Length x width x height	[mm] 1660 x 990 x 35
Weight	[kg] 19
Number of cells	60
Cell size	[mm] 156 x 156
Cell material	Polycrystalline Si
Front sheet	Solar glass (TSG)
Back sheet	Polymer sheet, white
Frame material	Al alloy, silver

CERTIFICATIONS AND WARRANTY	
Product Guarantee	12 years
Power Guarantee	25 years – Linear
Fire Resistance	Class C
Protection Against Electric Shock	II
Certifications	<ul style="list-style-type: none"> § IEC 61215, IEC 61730-1/-2 § IEC 62716 – Ammonia Resistance § IEC 61701 – Salt mist Resistance § IEC 62804 – PID Resistance § MCS 010; MCS 005

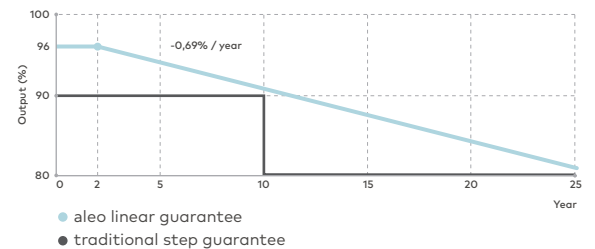
LOADS		
Max. module pressure load	[Pa]	5400*
Max. module suction load	[Pa]	2400*
Max. system voltage	[V _{DC}]	1000
Reverse current load	I_r [A]	20

Mechanical load acc. to IEC/EN 61215

* Please observe the mounting conditions in the installation manual

ADDITIONAL ELECTRICAL DATA		
Reduction of STC efficiency from 1000 W/m ² to 200 W/m ²	[%] rel.	< 1
Classification range (positive classification)	[W]	0/+4.99

PERFORMANCE GUARANTEE



PLEASE CONTACT YOUR AUTHORISED ALEO DEALER